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Comparative Hybridization Analysis of Gene Expression (CHANGE)

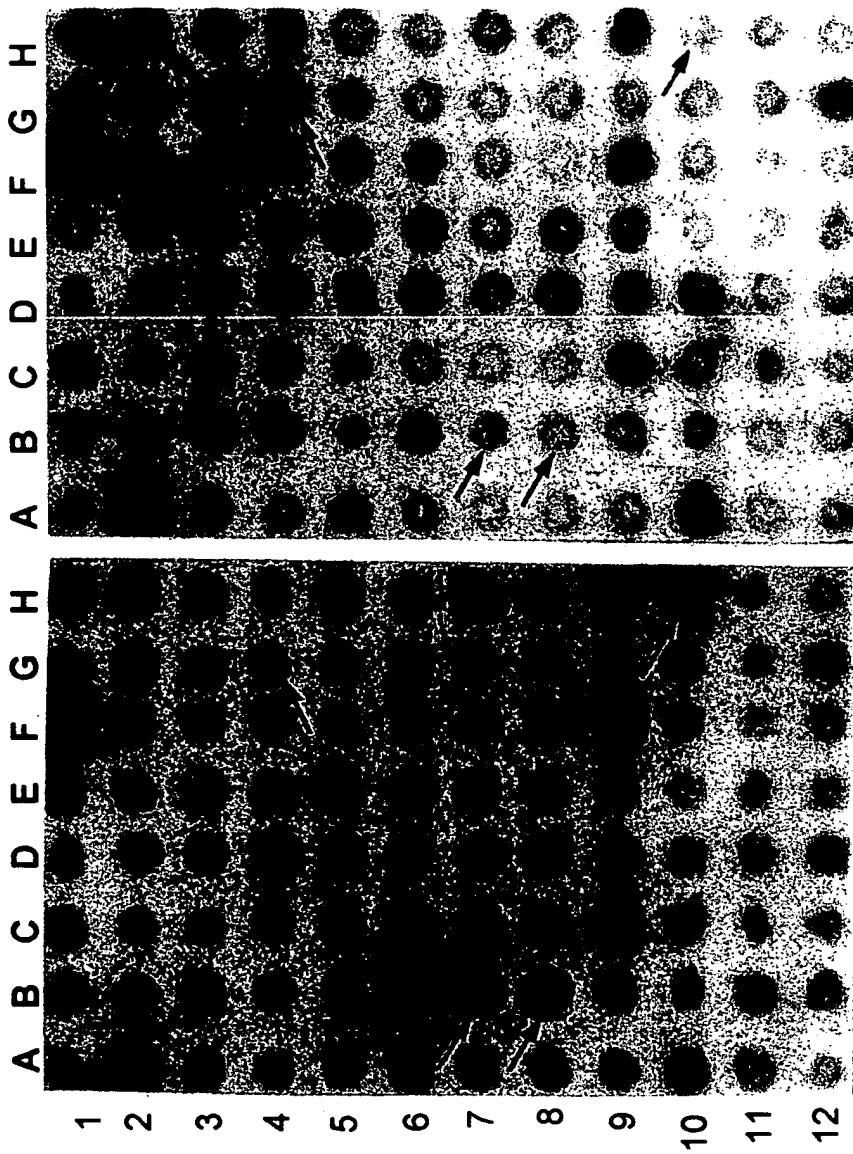
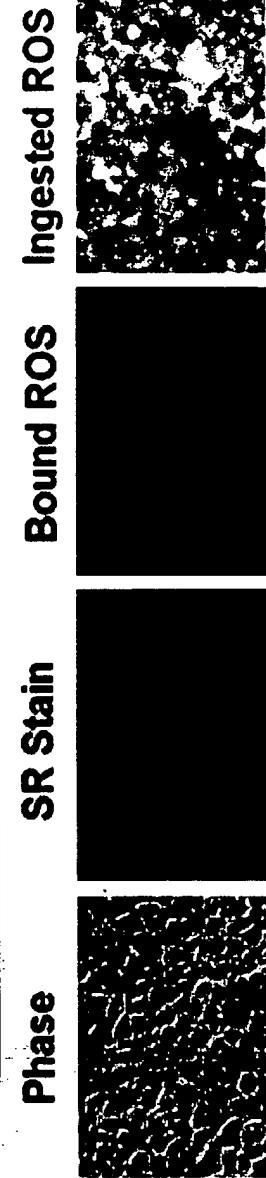
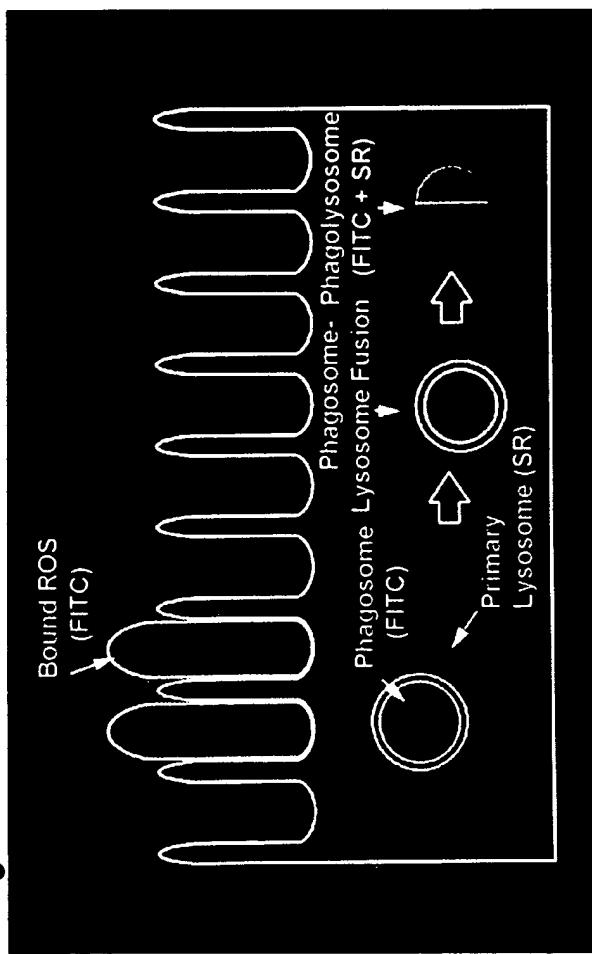


Fig. 1

Probe 1
Probe 2

Living Assay of ROS Phagocytosis by BPEI-1 RPE Cell Line

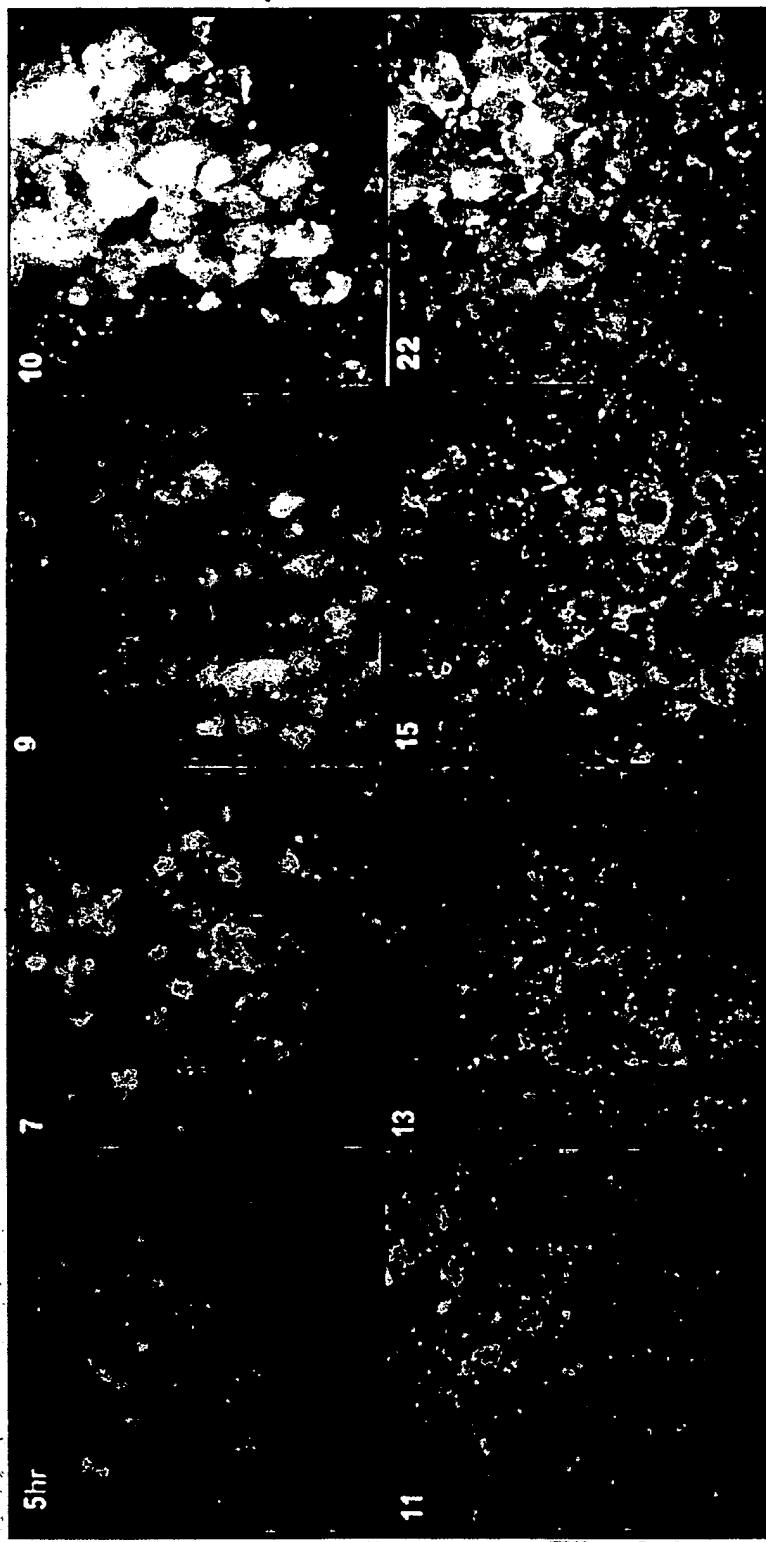


Images of Living BPEI-1 RPE Cells During Phagocytosis Assay

Fig. 2

Synchronous ROS Binding and Ingestion by BPEI-1 Immortal RPE Cell Line

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METHODS AND COMPOSITIONS FOR
TREATING RETINAL DISEASES
Atty. Docket No.: 39532-192229
Pages 3 of 15



BPEI-1 cells showing ROS binding (5-9 hr) and ingestion (11-22 hr).

Fig. 3

Multi-Gene Expression Profile During ROS Phagocytosis in Vitro

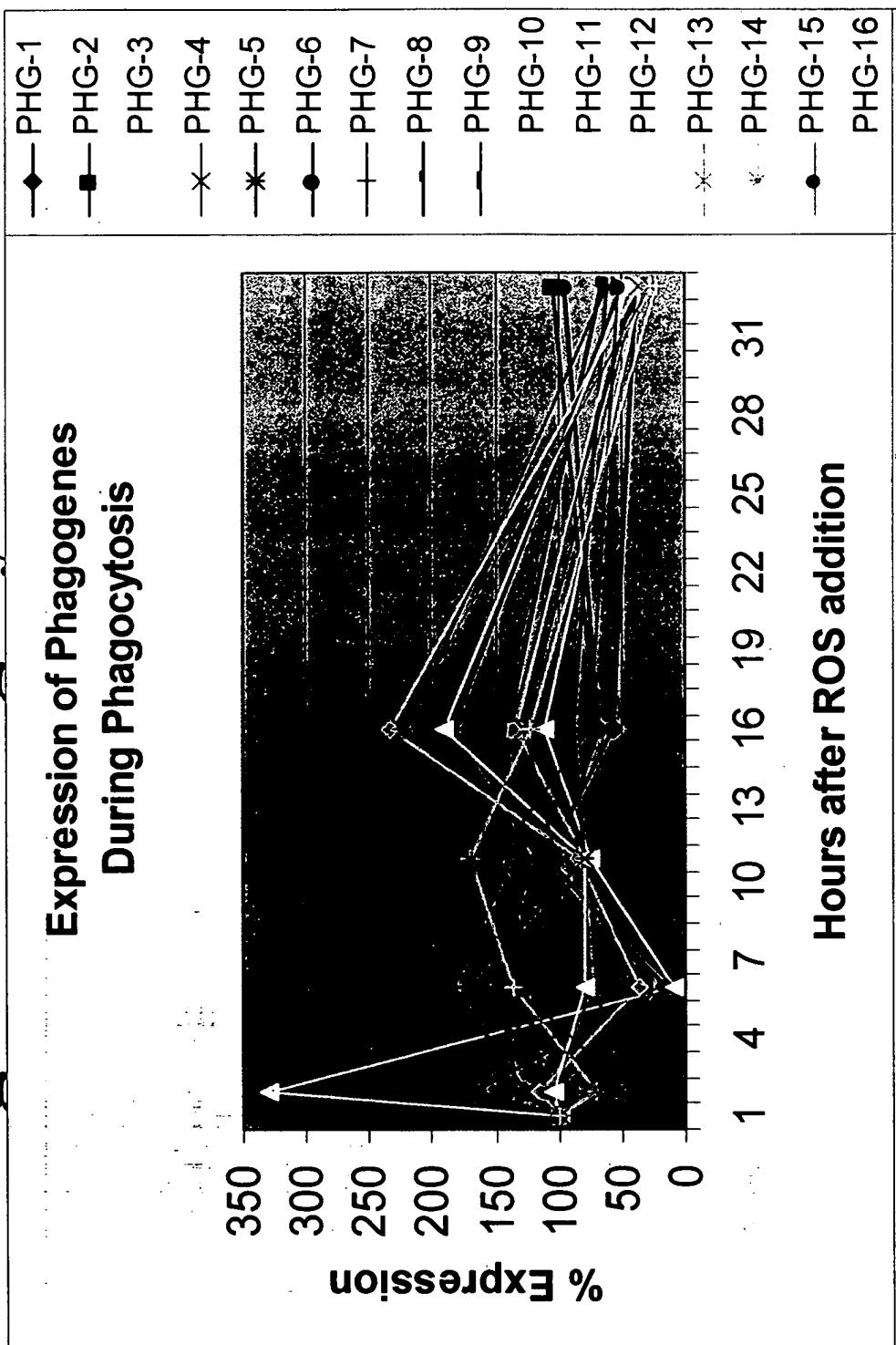


Fig. 4

Grading of Eyes with AMD-related Changes

George INANA et al.
METHODS AND COMPOSITIONS FOR
TREATING RETINAL DISEASES
Atty. Docket No.: 39532-192229
Pages 5 of 15

Severity

+3 - +4



+2 - +3



0 - +1

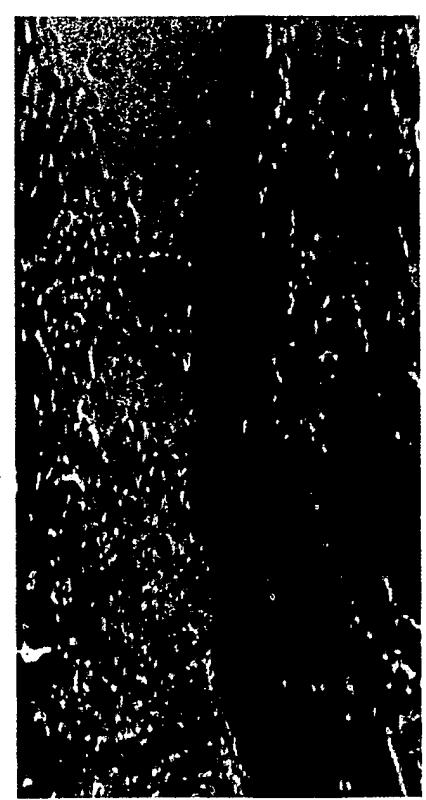


Fig. 5

Northern Blot Analysis of MT1-MMP Expression During ROS Phagocytosis by RPE Cells

4 hr 13 hr

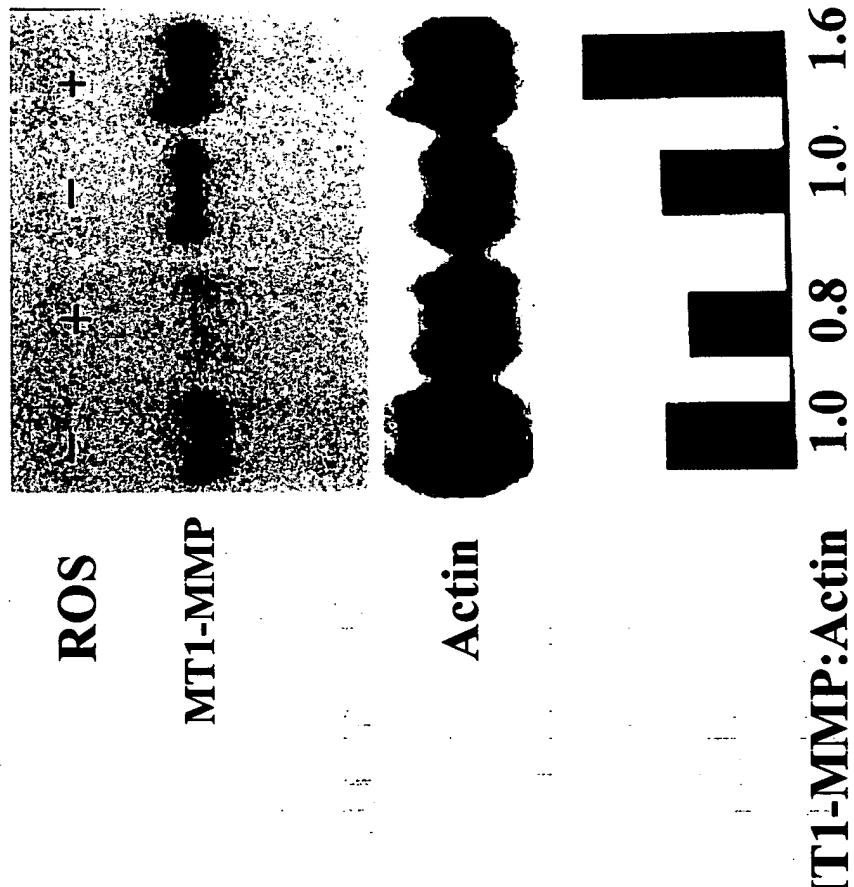


Fig. 6

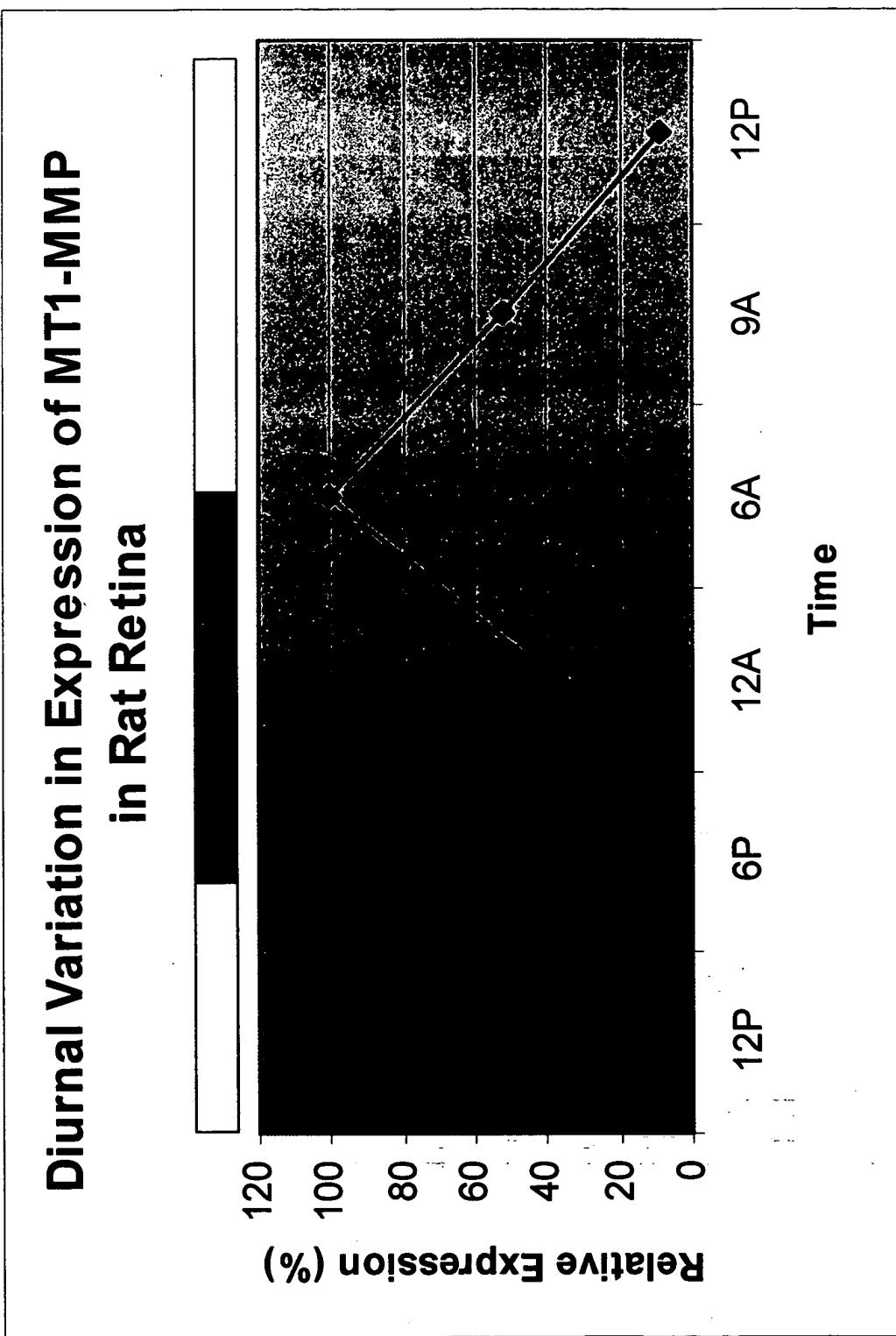


Fig. 7

Diurnal Variation in Immunostaining of Rat Retina with MT1-MMP Antibody

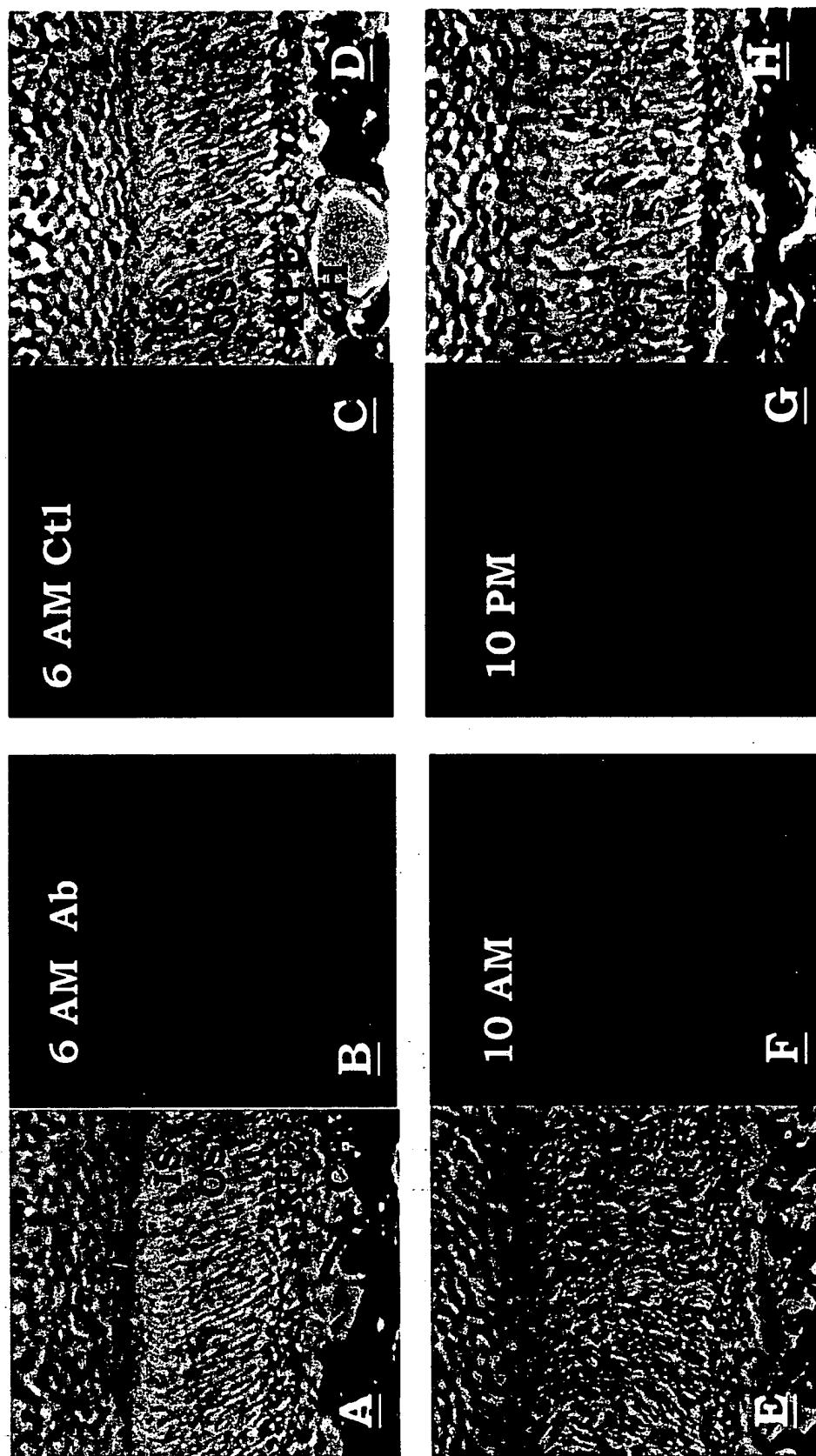


Fig. 8

Immunostaining of Rod and Cone OS and Phagosomes with MT1-MMP Antibody

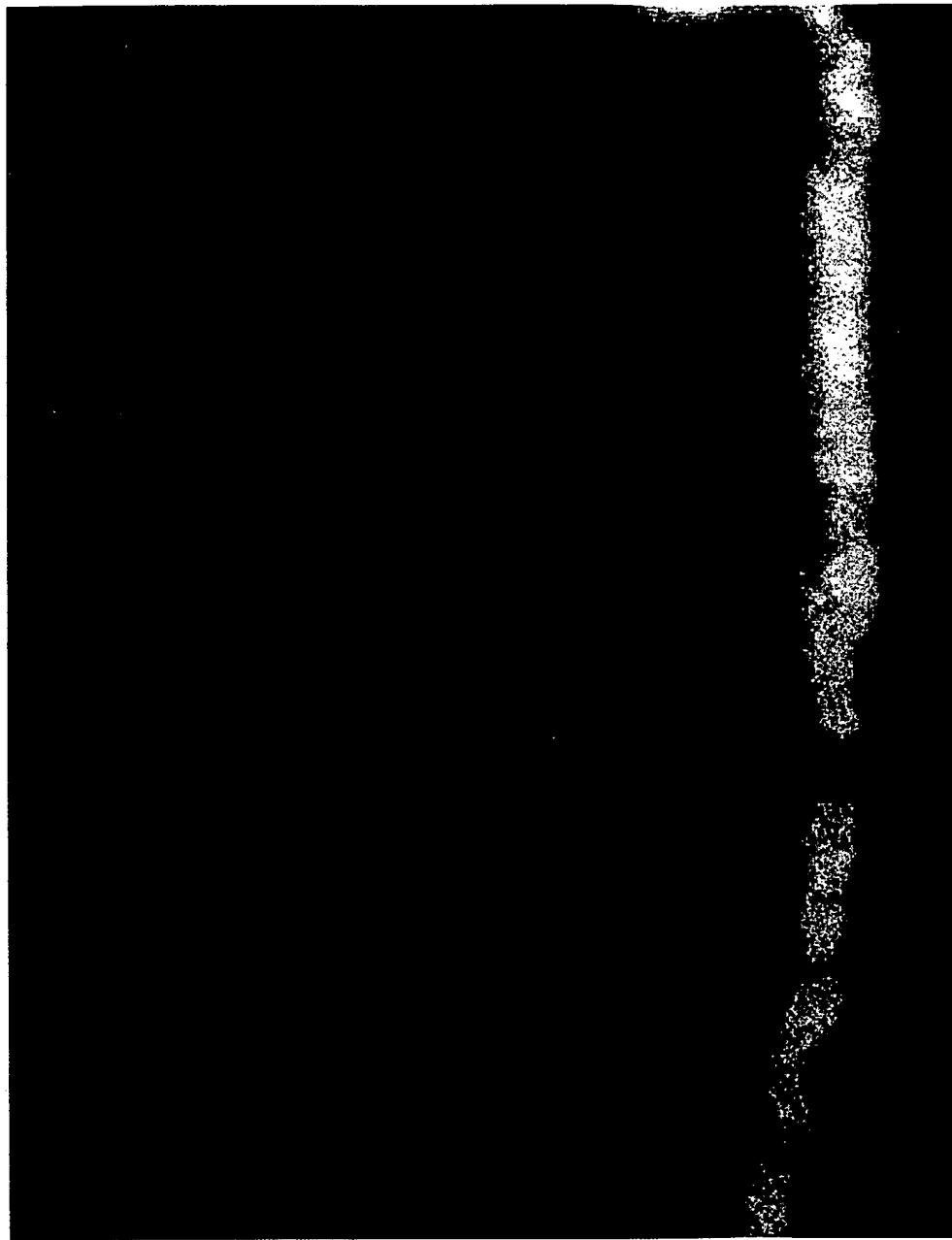


Fig. 9

Effect of MT1-MMP Antibody on ROS Phagocytosis by Cultured RPE Cells

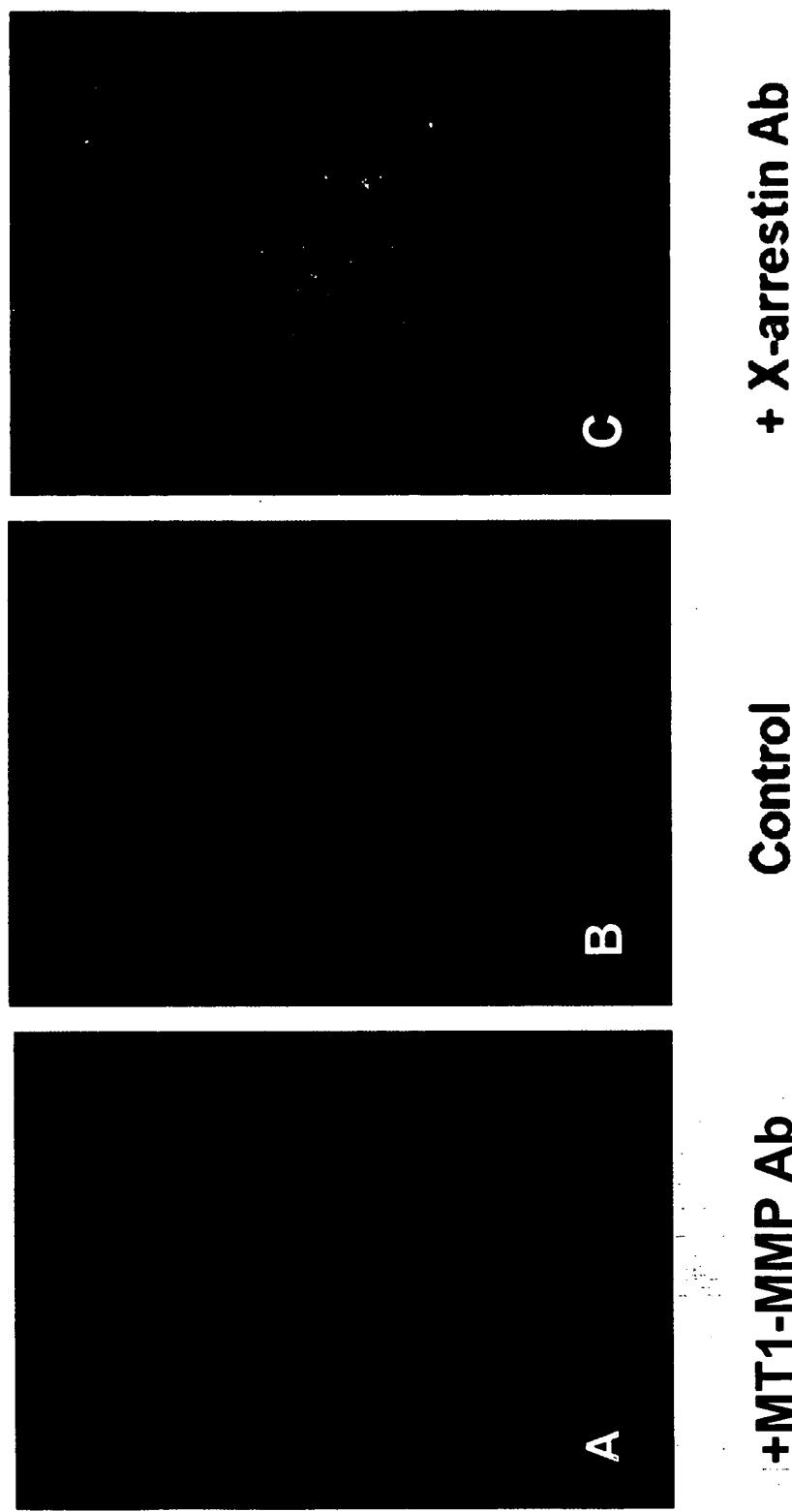


Fig. 10

Effect of Intracocular Injection of MT1-MMP Antibody on Outer Retina of the Rat

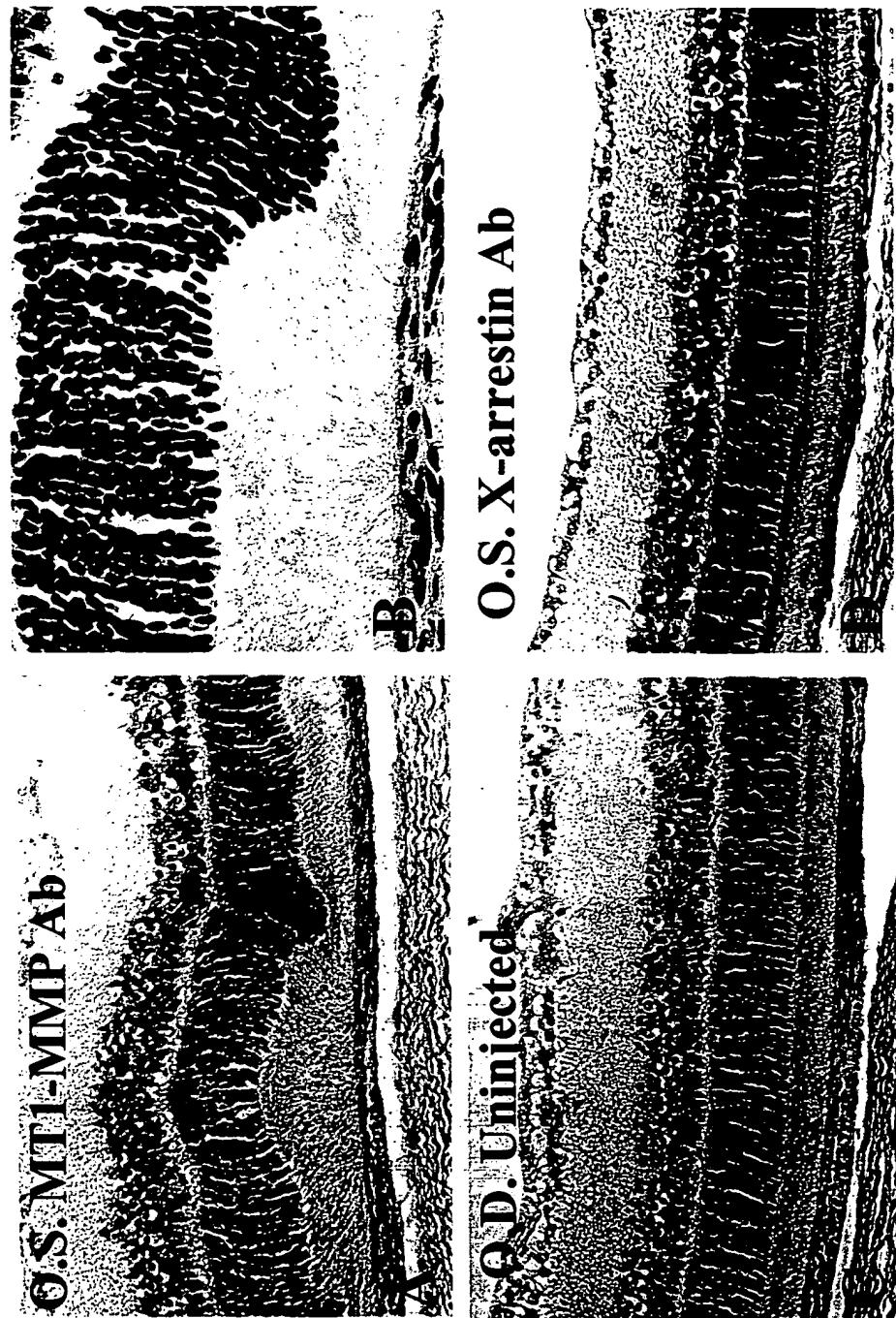


Fig. 11

Northern Blot Analysis of MT1-MMP Expression in AMD-Affected and Normal Eyes

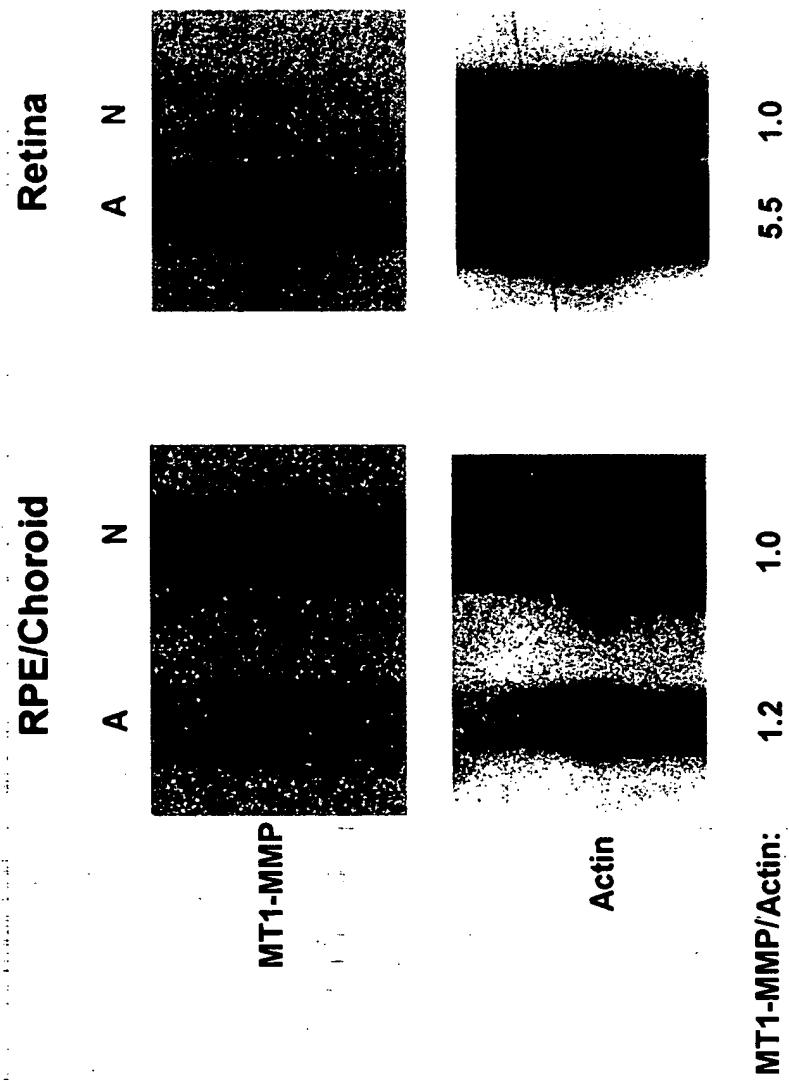


Fig. 12

MT1-MMP Expression in Human Retina: Relationship to Age-related Change

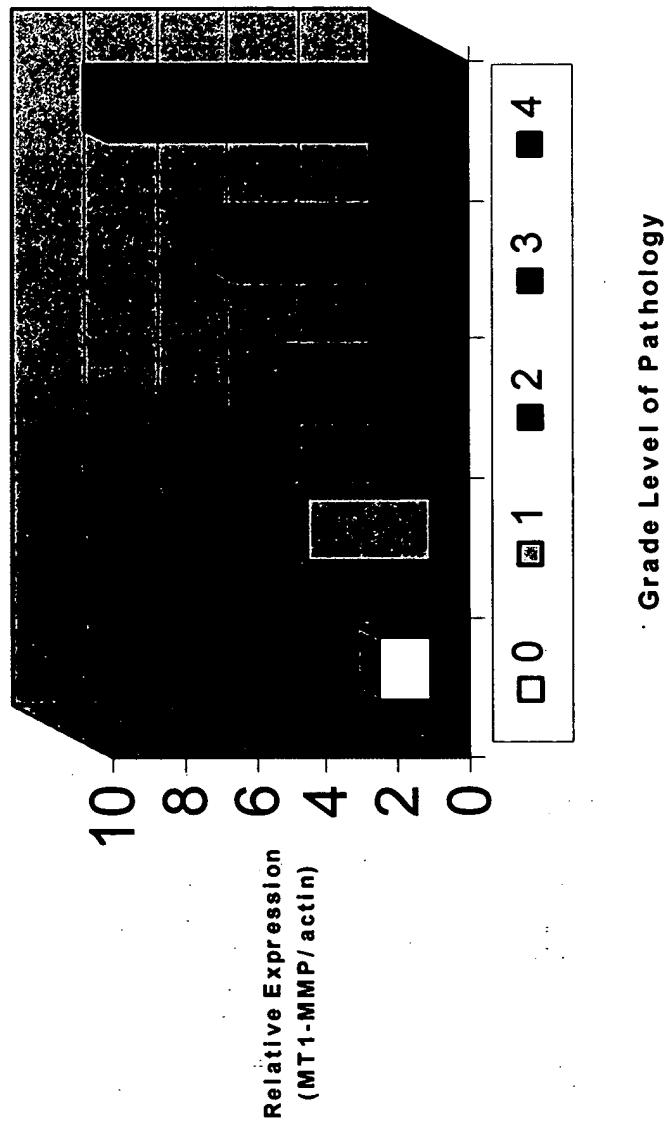


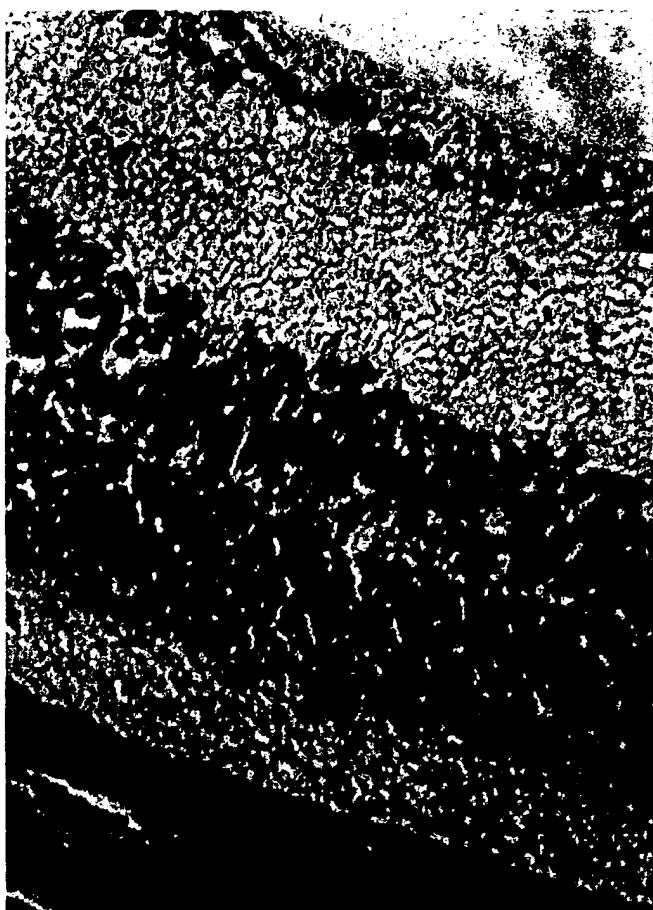
Fig. 13

MT1-MMP Exon 5 PCR product (SEQ ID NO:59)

1 GGGAGGCTGA GGGAAAGGGAC TCAGGGCTGCT ATCGTCAC TG TCCCCATCCCT
51 CCAGGAAATG ACATCTCCT GGTGGCTGTG CACGAGCTGG GCCATGCCCT
101 GGGGCTCGAG CATTCCAGTG ACCCCTCGGC CATCATGGCA CCCTTTTAC
codon 259
151 AGTGGATGGA CACGGAGAAT TTTGTGCTGC CCGATGATGA CCGCCGGGGC
codon 273
201 ATCCAGCAAC TTATGGCGA GTAGTCTACA CCCACGCGCTG CTCCCTCCTC
251 TGCTGCTGT TCCCCTCTGG TCTACGGCATT TCCCC

Injection of MT1-MMP Ab into
RCS Eye

1 mo after injection uninjected



B

A

Fig. 15